

Crawler Tractor

PR 716

Litronic®

Operating Weight:
13,200 – 15,200 kg
29,100 lb / 33,510 lb

Engine Output:
93 kW / 125 HP (SAE J1349)
93 kW / 126 HP (ISO 9249)

Stage IV / Tier 4f



LIEBHERR

Technical Data



Engine

Liebherr Diesel engine	D 924 A7 Emission regulations according to 97/68/EC, 2004/26/EC Stage IV, EPA/CARB Tier 4f
Rated power (net)	
ISO 9249	93 kW/126 HP
SAE J1349	93 kW/125 HP
Maximum power (net)	
ISO 9249	107 kW/146 HP
SAE J1349	107 kW/144 HP
Rated speed	2,100 rpm
Displacement	4.6 l
Design	4 cylinder in-line engine, water-cooled, turbocharged, air-to-air intercooler
Injection system	Direct fuel injection, Common Rail, electronic control
Lubrication	Pressurised lube system, engine lubrication guaranteed for inclinations up to 35°, on all sides
Operating voltage	24 V
Alternator	140 A
Starter	5.5 kW/7 HP
Batteries	2 x 100 Ah/12 V
Air cleaner	Dry-type air cleaner with pre-cleaner, main and safety elements, control light in the operator's cab
Cooling system	Combi radiator, comprising radiators for water, hydraulic fluid and charge air. Hydrostatic fan drive



Hydraulics

Hydraulic system	Open-center with load-sensing valve block
Pump type	Gear pump
Pump flow max.	97 l/min. / 25.6 gpm
Pressure limitation	220 bar/3,190 psi
Control valve	3 segments, expandable to 4
Filter system	Return filter with magnetic rod in the hydraulic tank
Control	Single joystick for all blade functions



Travel Drive, Control

Transmission system	Infinitely variable hydrostatic travel drive, independent drive for each track
Travel speed *	Continuously variable
Speed range 1 (reverse):	0 – 4.0 km/h/2.5 mph (4.5 km/h/2.8 mph)
Speed range 2 (reverse):	0 – 6.0 km/h/3.7 mph (8.0 km/h/4.9 mph)
Speed range 3 (reverse):	0 – 10.0 km/h/6.2 mph (10.0 km/h/6.2 mph)
	* Travel speed ranges can be set on the travel joystick (memory function)
Electronic control	The electronic system automatically adjusts travel speed and drawbar pull to match changing load conditions
Steering	Hydrostatic
Service brake	Hydrostatic (self-locking), wear-free
Parking brake	Multi-disk brake, wear-free, automatically applied with neutral joystick position
Cooling system	Hydraulic oil cooler integrated in combi radiator, hydrostatic fan drive
Filter system	Micro cartridge filters in replenishing circuit
Final drive	Combination spur gear with planetary gear
Control	Single joystick for all travel and steering functions. Optional: detented Joystick, with inching pedal



Operator's Cab

Cab	Resiliently mounted cab with positive pressure ventilation, can be tilted with hand pump 40° to the rear. With integrated ROPS Rollover Protective Structure (EN ISO 3471) and FOPS Falling Objects Protective Structure (EN ISO 3449)
Operator's seat	Air-suspended comfort seat, fully adjustable
Monitoring	Touch screen: display of current machine information, automatic monitoring of operating conditions. Individual setting of machine parameters

Undercarriage

	XL	LGP
Design	Undercarriage with rigid bottom rollers	
Mounting	Via separate pivot shafts and equalizer bar	
Track chains	Lubricated, single-grouser shoes, tensioning via a steel spring and grease tensioner	
Links, each side	39	39
Track rollers, each side	7	7
Carrier rollers, each side	1 (2*)	1 (2*)
Sprocket segments, each side	5	5
Track shoes, standard	560 mm/22"	610 mm/24"
Track shoes, optional		711 mm/28" 762 mm/30"

* Rotary bushing undercarriage FTB: 2 carrier rollers

Sound Emissions

Operator sound exposure ISO 6396	$L_{pA} = 75$ dB(A) (in the cab)
Exterior sound pressure 2000/14/EC	$L_{WA} = 109$ dB(A) (to the environment)

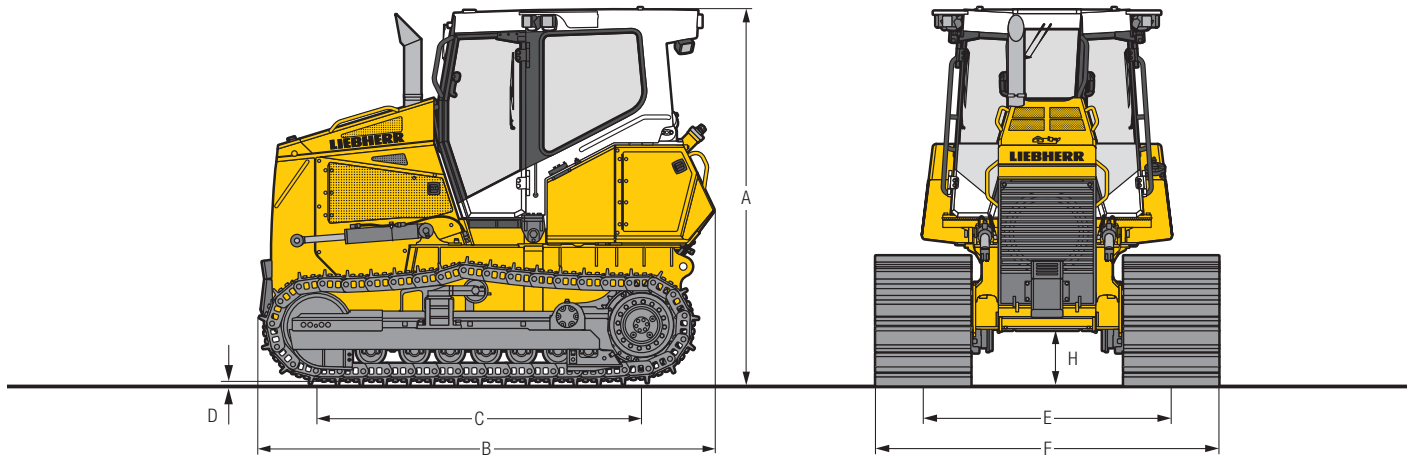
Refill Capacities

Fuel tank	320 l/84.5 gal
Diesel Exhaust Fluid (DEF) tank	50 l/13.2 gal
Cooling system	24 l/6.3 gal
Engine oil, with filter	19 l/5 gal
Hydraulic tank	101 l/26.7 gal
Final drive XL, LGP, each side	7,5 l/2 gal

Drawbar Pull

Max.	215 kN
at 1.5 km/h / 0.9 mph	190 kN
at 3.0 km/h / 1.9 mph	96 kN
at 6.0 km/h / 3.7 mph	49 kN
at 9.0 km/h / 5.6 mph	32 kN

Dimensions

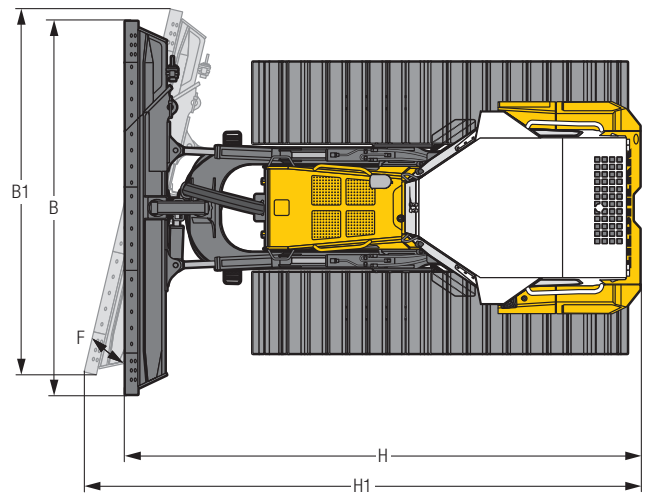
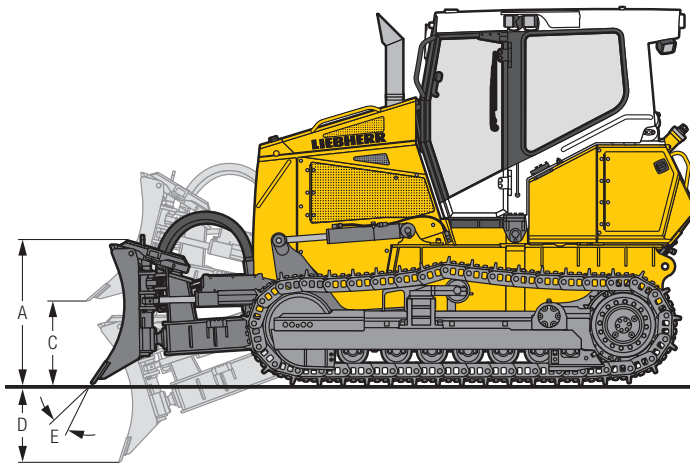


Dimensions

Undercarriage			XL	LGP
A	Height over cab	mm	3,012	3,012
		ft in	9'11"	9'11"
B	Overall length without attachments	mm	3,655	3,655
		ft in	12'	12'
C	Length of track on ground	mm	2,605	2,605
		ft in	8'7"	8'7"
D	Height of grousers	mm	55.5	55.5
		ft in	2.19"	2.19"
E	Track gauge	mm	1,780	1,980
		ft in	5'10"	6'6"
H	Ground clearance	mm	443	443
		ft in	1'5"	1'5"
F	Track shoes 560 mm / 22"			
	Width over tracks	mm / ft in	2,340 / 7'8"	–
	Tractor shipping weight ¹⁾	kg / lb	11,559 / 37'11"	
F	Track shoes 610 mm / 24"			
	Width over tracks	mm / ft in	–	2,590 / 8'6"
	Tractor shipping weight ¹⁾	kg / lb		11,718 / 38'5"
F	Track shoes 711 mm / 28"			
	Width over tracks	mm / ft in	–	2,691 / 8'10"
	Tractor shipping weight ¹⁾	kg / lb		11,933 / 39'2"
F	Track shoes 762 mm / 30"			
	Width over tracks	mm / ft in	–	2,742 / 9'
	Tractor shipping weight ¹⁾	kg / lb		12,042 / 39'6"

¹⁾ Including coolant and lubricants, 20 % fuel, ROPS/FOPS cab.

Front Attachments



6-Way Blade with Inside Mounted Push Frame

		6-way blade	6-way blade with hinged corners	6-way blade	6-way blade with hinged corners
		XL	XL	LGP	LGP
Undercarriage					
Blade capacity, ISO 9246		m ³ yd ³	2.75 3.6	2.75 3.6	3.11 4.07
A	Height of blade	mm	1,100	1,100	1,100
		ft in	3'7"	3'7"	3'7"
B	Width of blade	mm	3,145	3,145	3,510
		ft in	10'4"	10'4"	11'6"
B1	Width of blade, angled	mm	2,896	2,896	3,226
		ft in	9'6"	9'6"	10'7"
Transport width		mm	2,896	2,467	3,226
		ft in	9'6"	8'1"	10'7"
C	Lifting height	mm	999	999	999
		ft in	3'3"	3'3"	3'3"
D	Digging depth	mm	511	511	511
		ft in	1'8"	1'8"	1'8"
E	Blade pitch adjustment		5°	5°	5°
			25°	25°	25°
F	Blade angle adjustment		25°	25°	25°
			25°	25°	25°
	Max. blade tilt	mm	448	448	500
		ft in	1'6"	1'6"	1'8"
H	Overall length, blade straight	mm	4,854	4,854	4,854
		ft in	15'11"	15'11"	15'11"
H1	Overall length, blade angled	mm	5,477	5,477	5,555
		ft in	18'	18'	18'3"
Track shoes 560 mm / 22"					
Operating weight ¹⁾		kg / lb	13,290 / 29,299	13,650 / 30,093	–
Ground pressure ¹⁾		kg / cm ² / psi	0.46 / 6.54	0.47 / 6.68	–
Track shoes 610 mm / 24"					
Operating weight ¹⁾		kg / lb	–	–	13,506 / 29,776
Ground pressure ¹⁾		kg / cm ² / psi	–	–	0.43 / 6.11
Track shoes 711 mm / 28"					
Operating weight ¹⁾		kg / lb	–	–	13,721 / 30,250
Ground pressure ¹⁾		kg / cm ² / psi	–	–	0.37 / 5.26
Track shoes 762 mm / 30"					
Operating weight ¹⁾		kg / lb	–	–	13,830 / 30,490
Ground pressure ¹⁾		kg / cm ² / psi	–	–	0.35 / 4.98

¹⁾ Including coolant and lubricants, 100 % fuel, ROPS/FOPS cab, operator, 6-way blade.

Rear Attachments



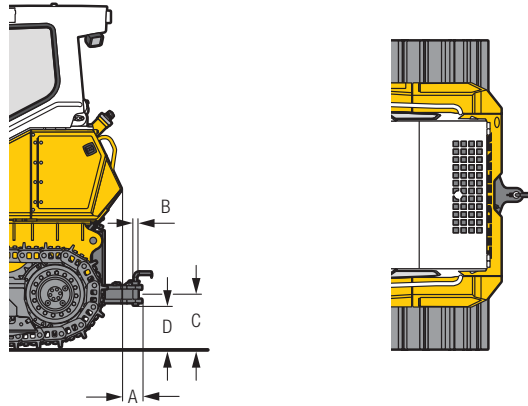
3-Shank Ripper

A	Ripping depth	mm	418
		ft in	1'4"
B	Lifting height	mm	498
		ft in	1'8"
C	Additional length, attachment raised	mm	886
		ft in	2'11"
D	Additional length, attachment lowered	mm	1,147
		ft in	3'9"
E	Overall beam width	mm	1,970
		ft in	6'6"
F	Distance between shanks	mm	900
		ft in	2'11"
Weight		kg	993
		lb	2,189



Drawbar

			rigid
A	Additional length	mm	172
		in	6.77"
B	Socket pin diameter	mm	44.5
		in	1.75"
C	Height of jaw	mm	424
		ft in	1'5"
D	Ground clearance	mm	329
		ft in	1'1"
Jaw opening		mm	90
		in	3.54"
Weight		kg	157
		lb	346



Equipment



Base Machine

Additional handle on fuel tank	+
Air filter, dry type, dual step, with pre-filter	•
Auto Idle	+
Automatic engine shut-off	+
Battery compartment, lockable	•
Coal arrangement	1)
Cold environment arrangement	1)
Cooling fan, hinged (with tool)	•
Cooling fan, hydraulically driven	•
Cooling fan, reversible	+
Diesel Exhaust Fluid (DEF) tank, lockable	•
Diesel particulate filter	1)
Engine compartment doors, lockable	•
Forestry arrangement	1)
Fuel pre-filter	•
Fuel water separator	•
Grade control ready kit	+
LiDAT – Data transmission system	•
Liebherr diesel engine emission stage IV/Tier 4f	•
Liebherr hydraulic oil, biologically degradable	+
Lugs for crane lifting, front	•
Radiator guard, hinged (with tool)	•
Radiator, wide-meshed	•
Refuelling pump, electric	+
Special paint scheme	+
Tool kit, extended	+
Towing hitch rear	•



Hydraulic System

Blade float function	•
Blade quick drop function	•
Control block for 3 circuits	•
Hydraulic kit for ripper	+
Hydraulic kit for winch	+
Oil filter in hydraulic tank	•



Travel Drive

Emergency stop	•
Final drives planetary gear	•
Inching brake pedal	+
Load limit control, electronic	•
Parking brake, automatic	•
Seat contact switch	•
Travel control, 3 speed ranges	•
Travel drive joystick, detented	+
Travel drive joystick, proportional	•
Travel drive, hydrostatic	•



Operator's Cab

Air-conditioner	•
Armrests 3D adjustable	•
Cab heating	•
Coat hook	•
Dome light	•
Fire extinguisher in the cab	+
Footrest on the right side of the front console	+
Operator's seat Comfort, air-suspended	•
Operator's seat Premium, air-suspended	+
Pressurised cab	•
Protective grid, rear window	+
Radio	+
Radio preparation kit	+
Rear-view camera	+
Rear-view mirror, inside	•
Rear-view mirrors, external	+
ROPS/FOPS integrated	•
Safety glass tinted	•
Sliding window left	+
Sliding window right	+
Socket 12 V	•
Stowage compartment, air-conditioned	•
Sun visor, front	+
Touch-controlled color display	•
Windshield washer system	•
Windshield wipers front, rear, doors, with intermittent function	•

• = Standard, + = Option, 1) on demand at your dealer

Equipment



Electrical System

2 additional working lights on the cab, rear	+
2 cold start batteries	•
2 working lights on the cab, rear	•
4 working lights on the cab, front	•
All working lights in LED version	+
Back-up alarm	+
Back-up alarm, acoustic and visual	+
Back-up alarm, switchable	+
Battery main switch	•
Battery main switch, lockable	+
Beacon	+
Horn	•
Immobiliser, electronic	+
On-board voltage 24 V	•



Attachments Front

6-way blade	+
6-way blade with hinged corners	+
Blade pitch adjustment	+
Guards for hydraulic cylinders, 6-way blade	+
Side wings for 6-way blade, bolt-on	+
Spill plate	+



Attachments Rear

Counterweight, rear	+
Drawbar rear, rigid	+
Mounting plate for external equipment	+
Ripper, 3 shanks	+
Ripper, 5 shanks	+
Winch	1)

Undercarriage

Master link, two-piece	•
Sprocket segments with recesses	1)
Sprocket segments, bolted	•
Track guard, full length	+
Track guide, centre part	+
Track guide, front and rear	•
Track pads with mud holes	1)
Track shoes, moderate service	•
Tracks, oil-lubricated	•
Undercarriage LGP	+
Undercarriage with rotary bushings FTB	+
Undercarriage XL	+

• = Standard, + = Option, 1) on demand at your dealer

Options and/or special attachments, supplied by vendors other than Liebherr, are only to be installed with the knowledge and approval of Liebherr in order to retain warranty.